



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 12. Juli 2016

17 Uhr s.t., Geom H4

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Transitive groups of similitudes

Abstract:

A composition algebra is a (not necessarily associative) algebra over a field with a non-degenerate multiplicative quadratic form (the norm of the algebra).

Multiplications (from the left or from the right) by fixed elements in any composition algebra are similitudes of the norm. We study the groups generated by multiplications from various subsets of the algebra.

If the algebra is not associative, the generation process is far from trivial. Along the way, we find generalizations of several (well known) exceptional homomorphisms between Lie groups.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.